# Centrifugal Filter Reference Guide

**Part Numbers**: 230708, 230710, 230712, 230714, 230716, 230720, 230722, 230724, 230726, 230728

## Introduction

Centrifugal Filters are designed with 2 vertical polyethersulfone (PES) membranes, ranging from 5 to 100kDa Molecular Weight Cut-Offs (MWCO). These filters are suitable for several applications, including protein concentration, size exclusion protein purification, buffer exchange, and desalting.

## General Operation Guidelines:

- Sample concentration is generally achieved after 10 to 30 minutes of centrifugation. Flow rate can be affected by several variables, including MWCO, sample concentration, solution viscosity, relative centrifugal force (RCF) applied, and temperature.

Sample application and centrifugation guidelines

| Centrifugal Filter Model | Conical Receiver Tube | Max Cartridge Volume | Max RCF Swing Bucket | Max RCF Fixed Angle |
|---|---|---|---|---|
| **4mL Filters** | 15mL | 5mL | 4000 x g | 5000 x g |
| **15mL Filters** | 50mL | 15mL | 3000 x g | 4000 x g |

- After centrifugation, samples may be collected from the cartridge pocket with a pipette.

20 Mill Street, Unit 130, Pepperell, MA 01463
Ph: 978.650.1320 | Fax: 978.650.1316
Email: service@celltreat.com
www.celltreat.com

**Additional Information**

- Centrifugal Filters are not autoclavable, as steam sterilization will alter the porosity of the PES membranes. Sterilization can be achieved by applying a solution of 70% ethanol to the filters.

- The PES membranes contain trace amounts of glycerin and sodium azide. Pre-rinsing is not required to use these filters. If these trace components are expected to interfere with sample analysis, the cartridges may be rinsed with deionized water or a buffer solution.

    1. Fill the cartridge with water or buffer solution
    2. Centrifuge, and discard the flow-through
    3. Use the rinsed cartridge immediately, or store at 4°C with water or buffer covering the membranes